BI

IN THE CLAIMS:

All claims currently pending and under consideration in the referenced application are shown below, in clean form, for clarity.

Please cancel claims 12-20, without prejudice or disclaimer.

1. A source structure for a local interconnect, comprising:

a semiconductor substrate;

a nitrogen-rich Ti layer having a nitrogen-rich upper portion and a titanium lower portion, wherein the nitrogen-rich upper portion is not pure titanium nitride, the titanium lower portion is substantially nitrogen-free, and the nitrogen-rich Ti layer overlies a portion of the semiconductor substrate;

a refractory metal layer overlying the nitrogen-rich Ti layer; and a silicon layer overlying the refractory metal layer.

- 2. The structure of claim 1, wherein the semiconductor substrate is a silicon substrate.
- 3. The structure of claim 2, wherein the nitrogen-rich Ti layer is disposed over active areas in the silicon substrate.
- 4. The structure of claim 1, wherein the nitrogen-rich upper portion extends along an upper surface of the nitrogen-rich Ti layer.
- 5. (Previously Amended) The structure of claim 1, wherein the titanium lower portion of the nitrogen-rich Ti layer contains substantially no nitrogen.
- 6. The structure of claim 1, wherein a thickness of the nitrogen-rich upper portion ranges from about 50Å to about 100Å.

- 7. The structure of claim 1, wherein a thickness of the nitrogen-rich Ti layer ranges from about 100Å to about 300Å.
 - 8. The structure of claim 1, wherein the refractory metal layer comprises Co or Ti.
 - 9. The structure of claim 8, wherein the refractory metal layer comprises Ti.

BI

- 10. The structure of claim 1, wherein a thickness of the refractory metal layer ranges from about 100Å to about 300Å.
- 11. The structure of claim 1, wherein a thickness of the silicon layer ranges from about 400Å to about 1000Å.